

## Environmental Compliance (EC)

All activities conducted by EC are done in such a manner that worker and public safety, including protection of the environment, are given the highest priority. To ensure compliance with both the letter and spirit of regulatory requirements, EC has made a commitment to comply with all applicable environmental requirements, as described in its mission statement:

**Mission Statement:** The Environmental Compliance group is responsible for environmental compliance support to DOE-LM programs and projects. The primary function of the group is to identify by site and activity, applicable federal, tribe, state, and local regulations and DOE orders; to provide environmental compliance oversight for the LMS contractor and their subcontractors; and to obtain permits, assist with their implementation, and terminate them when activities are completed.

The EC group has consistently met all regulatory-compliance permitting and reporting requirements on schedule and provided regulatory updates and expertise as requested. There were no compliance issues or violations during this quarter. A summary of some of the key activities are listed in the table below and in the short summaries that follow.






Activity	Date Completed
EC developed several notices-to-file for the management of purge water, drill cuttings, and other wastes from well installation, development, and sampling activities across the LMS complex.	October 6
EC completed the <i>Environmental Protection Manual</i> (LMS/POL/S04329), which consists of regulatory compliance, environmental monitoring, and natural- and cultural-resource protection programs to ensure the comprehensive implementation of the LM EMS.	July
Grand Junction disposal site quarterly ambient air monitoring for radon was completed.	October 1
The Laboratory for Energy-Related Health Research (LEHR) <i>Annual Site Environmental Report</i> (ASER) was submitted on schedule.	July
A termination notice for a storm water permit for the Eastern Dog Pens activity at the LEHR site was sent to the State for approval.	July
The Weldon Spring ASER was submitted on schedule as required by the Federal Facility Agreement.	July 17
Durango annual payment for the Colorado Department of Public Health and Environment discharge permit for Bodo Canyon (CO-0041548) was paid in July. This permit was approved for termination and will expire in January 2008.	Monthly
Mound monthly Radioactive Effluent Reports were submitted on schedule.	July
The Fernald SARA 313 report submitted on schedule.	September
The Fernald quarterly sitewide inspection took place in September.	Monthly
Monthly reports for Durango, Fernald, Mound, and Weldon Spring were submitted on or ahead of schedule. These included <i>Environmental Restoration</i> , <i>Radioactive Effluent</i> , <i>Federal Facility Agreement and Core Team</i> , and <i>Monthly National Pollution Discharge Elimination System Discharge Monitoring</i> reports.	Weekly
EC performed weekly site inspections of several LM sites, including the Fernald Preserve, the Grand Junction disposal site, Mound, and Weldon Spring.	September




## Environmental Management System

Stoller continued to collaborate with LM to more fully implement the joint EMS in accordance with the requirements of Executive Order 13423, *Strengthening Federal Environmental, Energy, and Transportation Management; Instructions for Implementing Executive Order 13423*; DOE Order 450.1A, *Environmental Protection Program*; and DOE Order 430.2B, *Departmental Energy, Renewable Energy and Transportation Management*. To accomplish this, most EMS efforts were directed toward developing individual EMS programs to implement and manage multiple environmental focus areas within LM: energy efficiency, renewable energy, water conservation, environmentally preferable purchasing, waste minimization and pollution prevention, sustainable buildings, vehicle and fuel use, electronics stewardship, and land stewardship.

Performance against the FY 2008 EMS goals, initiatives, and achievements are noted in the following tables.

Table 1. Summary of FY 2008 EMS Goals, Initiatives, and Achievements

Goals	Achievements	Status
1. Reduce the use of copier/printer paper at LM sites by 5 percent per employee.	Employee paper use in FY2008 was reduced by 32% per employee from FY2007 numbers.	
2. Reduce travel to LM sites by 5 percent (actual travel compared to budgeted travel).	Through FY 2008, Stoller actual travel costs are ~23 percent less than budgeted travel costs. This indicates reduced fuel and energy use related to air travel, rental cars, and hotels.	
3. Enroll one additional LM site in a renewable energy program.	Personnel completed the enrollment of the Mound site powering a renewable energy program on September 24, 2008. Approximately 7.5 percent of Mound's electrical power is from utility green power renewable energy.	
4. Increase renewable energy use at two LM sites by 5 percent.	Personnel increased purchases of utility green power renewable energy at the Fernald site by over 400 percent in July 2008. Approximately 33 percent of Fernald's electrical power is from utility green power renewable energy. Heating and cooling energy at the FPVC, which opened in July 2008, is from on-site installed geothermal energy. Personnel increased purchases of utility-supplied green power at the Monticello site by 100 percent in September 2008. Approximately 18 percent of Monticello's electrical power is from utility green power renewable energy.	
5. Use two additional green products at any LM site.	At the onset of the fiscal year, this EMS goal was established to promote EPP toward sound stewardship across the LM complex. With a quarter remaining in the fiscal year and continued focus on green alternatives, there are already more than two green products in use. The three recognized that meet this goal illustrate the breadth of the effort: <ul style="list-style-type: none"> <li>• Green furnishings at the FPVC.</li> <li>• Kubota-model diesel mower.</li> <li>• Ricoh MPC 3000 copier on the Ecologo list.</li> </ul>	

Goals	Achievements	Status
6. Study the feasibility of installing additional solar-powered equipment at LM sites.	Tuba City is installing a parabolic-mirror solar-heating system, estimated to be completed in late FY 2008 or early FY 2009. A draft <i>Renewable Energy FY 2009 Site Prioritization and Feasibility Evaluation</i> outline was prepared and was distributed to the Renewable Energy Program Team for review on September 24, 2008. This outline provides a proposed rationale for selecting the LM sites to be evaluated for installation of a renewable energy project, the feasibility evaluation approach, and the table of contents for the evaluation reports. The evaluations are required to meet the requirements of DOE 430.2B, <i>Departmental Energy, Renewable Energy and Transportation Management</i> , which requires sites to meet DOE renewable energy goals by installing on-site renewable energy projects to the extent feasible.	
7. Study feasibility of reuse/regeneration of the ion-exchange resin at the Fernald site's Converted Advanced Wastewater Treatment Facility.	Ion-exchange resin is posted on the DOE materials-exchange page.	
8. Study feasibility of changing the vehicles currently in the LM General Services Administration vehicle fleet to more fuel-efficient ones.	4 LM fleet vehicles (one at Fernald and 3 at Grand Junction) were replaced during fiscal year 2008. Three of these replacement vehicles are E85 fuel capable and have a fuel mpg rating approximately 25% higher than the vehicle replaced. The fourth replacement vehicle was a 1 ton pickup replacing a 1 ton pickup and is not rated. An electric golf cart was purchased for the Pinellas site to conduct field work".	



Stoplight status =  Excellent,  Satisfactory,  Requires Improvement

Table 2. Fourth Quarter FY 2008 Recycling Totals

FY 2008 Recycling Totals (pounds)	July	August	September
Office Paper	6,258.33	8,432.83	6,075.34
Cardboard	822	2,229	1,396
Plastic	123	144.5	120
Magazines	228	278	189
Steel	1,790	20,626	85
Glass	41	42	30
Aluminum	124	201	110
Newspapers	80	120	100
Phone Books	10	80	20
Toner Cartridges	126.25	230	157.5
Salvaged Materials	22	438,712	47
<b>Totals</b>	<b>9,624.58</b>	<b>471,095.33</b>	<b>8,329.84</b>

## Communications and Media

Coordinator: Darlene Depinho

Objectives	Current Quarterly Status (as of September 30, 2008)	Action Taken This Quarter July 1, 2008– September 30, 2008 (Brief Summary of Actions)	Action Plan Next Quarter October 1, 2008– December 31, 2008 (Brief Highlight of Actions)
Increase communications	 <b>Green Status</b>  <b>The media campaign remains on schedule.</b>	<ul style="list-style-type: none"> <li>A new EMS webpage was established and populated with sustainability programs, program team members, and other EMS information.</li> <li>The DOE/Stoller EMS bulletin that was developed and posted at the symposium was reproduced and distributed throughout LM active sites.</li> <li>Ideas for an EMS media campaign were developed.</li> <li>A <i>Recycling Update</i> bulletin, which summarizes recycling totals for LM sites during FY 2008, was issued.</li> <li>Six <i>E-News</i> articles regarding EMS were distributed this quarter.</li> <li>Three posters were distributed at the sites</li> </ul>	<p>Distribute the DOE/Stoller EMS bulletin throughout LM active sites.</p> <p>Continue <i>E-News</i> articles.</p> <p>Present additional media campaigns.</p> <p>Periodically, information regarding “greening the government” will be posted on the weekly <i>E-News</i> e-mail distribution to improve EMS awareness.</p>
Information exchange	 <b>In progress</b>	<ul style="list-style-type: none"> <li>EMS staff participated in DOE HQ's quarterly EPP teleconferences.</li> <li>EMS staff participated in EMS Assistance Network teleconferences.</li> </ul>	<p>EMS staff will continue to participate in DOE HQ's quarterly EPP teleconference.</p> <p>EMS staff will continue to participate in EMS Assistance Network teleconferences.</p> <p>An EMS Sustainable Building Team member will continue to participate in the DOE HQ High Performance Sustainable Building working group.</p> <p>The DOE EMS Coordinator will participate in drafting guidance for implementation of DOE Order 450.1A.</p> <p>The Stoller EMS Coordinator will participate in the Environmental Compliance Audit and Review working group in reviewing and providing comments on the implementation <i>Guide for Developing an Environmental Compliance Audit and Review Program</i>.</p> <p>The EMS Sustainable Building Team Lead and Fernald EC Lead are working to exchange information with personnel involved in LEED certification at the new records building in Morgantown.</p>

**Training**

Coordinator: Paul Wetherstein

<b>Objectives</b>	<b>Current Quarterly Status</b> (as of September 30, 2008)	<b>Action Taken This Quarter</b> July 1, 2008– September 30, 2008 (Brief Summary of Actions)	<b>Action Plan Next Quarter</b> October 1, 2008– December 31, 2008 (Brief Highlight of Actions)
EMS training	★ <b>Green Status</b>  On schedule.		
EMS program training	➤ <b>In progress</b>	<ul style="list-style-type: none"> <li>Schedule developed to present one program per month.</li> <li>EPP presented.</li> </ul>	Present renewable energy, sustainable buildings, energy efficiency and greenhouse gases, vehicle and fuel efficiency, waste minimization and pollution prevention, land stewardship, and water conservation.
EMS awareness training	➤ <b>Completed</b>	EMS awareness training across the LMS Stoller team is 95 percent complete. LM has rolled out the EMS awareness training.	EMS awareness module training for LM will occur in the first quarter of FY 2009.

**Energy Efficiency and Greenhouse Gases Program (EMS Program #1)**

Sponsors: Rich Bush, LM; Doug Gail, Stoller





**Mission Statement:** The Energy Efficiency and Greenhouse Gases Program establishes an energy conservation program as defined in Executive Order 13423 and as approved by LM. The program incorporates requirements for energy efficiency and greenhouse gas reductions, and it advocates conserving environmental resources and improving operational capabilities and mission sustainability.

<b>Objectives</b>	<b>Current Quarterly Status</b> (as of September 30, 2008)	<b>Action Taken This Quarter</b> July 1, 2008– September 30, 2008 (Brief Summary of Actions)	<b>Action Plan Next Quarter</b> October 1, 2008– December 31, 2008 (Brief Highlight of Actions)
Program implementation	★ <b>Green Status</b>  The program is on schedule to collect energy use for metered sites.	Since the program charter was formally issued, the implementation team comprising both Stoller and LM subject matter experts developed and finalized an implementation procedure, and continues to meet monthly to successfully complete the program objectives.	In the first performance quarter of FY 2009, the team will continue collecting and organizing energy use data, providing training to staff members, and following up on previous site energy conservation projects.
Establish energy use baseline	★ <b>Green Status</b>  The program is on schedule and in progress.	A draft reporting format for current energy use was developed for the baseline.	Locate sites' energy use data for base years. Begin correlating base-year data with current energy use.

**Renewable Energy Program (EMS Program #2)**

Sponsors: Mark Kautsky, LM; Barbara Mazurowski, Stoller

**Mission Statement:** The Renewable Energy Program will facilitate the use of renewable energy sources in support of Executive Order 13423 requirements, as approved by LM. The program will advocate that, to the extent feasible, energy consumed comes from new renewable sources and that LM implements renewable energy generation projects.




<b>Objectives</b>	<b>Current Quarterly Status</b> (as of September 30, 2008)	<b>Action Taken This Quarter</b> July 1, 2008– September 30, 2008 (Brief Summary of Actions)	<b>Action Plan Next Quarter</b> October 1, 2008– December 31, 2008 (Brief Highlight of Actions)
Program implementation	 <b>Green Status</b>  <b>The program is on track to meet the renewable energy goals and objectives for FY 2008. The program is being implemented in accordance with the program procedure.</b>	<p>The solar-powered thermal energy project at Tuba City continued through this quarter.</p> <p>Except for Tuba City, which is bringing an on-site renewable energy project online, all LM sites that directly pay for utility-supplied electrical power where utility-supplied green energy is available are now enrolled in a green power purchase program. For electricity use, the green power currently purchased (and for Tuba City, when the project comes online) meets or exceeds the DOE 430.2B goal that not less than 7.5 percent of energy consumed come from renewable energy sources by FY 2013; thus, it already exceeds the goals for FY 2009.</p>	<p>The Tuba City project is expected to be completed in the first quarter of FY 2009.</p> <p>Utilities are included in the lease payments for a number of LM sites, or are included in other occupancy arrangements, so that the LM site does not directly pay for utilities. The planned FY 2009 feasibility evaluations will include requesting that the entity purchasing utilities at these LM sites purchase a portion of the energy consumed from utility-supplied green power.</p>
Establish evaluation process for installing renewable energy projects	 <b>In progress</b>	A <i>Draft Renewable Energy FY 2009 Site Prioritization and Feasibility Evaluation</i> (protocol) outline was prepared and was distributed to the Renewable Energy Program Team for review on September 24, 2008.	The Draft Feasibility Evaluation protocol and prioritization will be finalized in the first quarter, and evaluations will begin.
Status renewable energy projects	 <b>In progress</b>	Information about the availability and cost of green power from each utility company directly supplying power to LM sites is complete. The status of renewable energy use for LM sites is included in the Draft Feasibility Evaluation protocol.	Review the status of utilities that currently do not supply green power to determine whether green power has become available for purchasing.
Prioritize renewable energy targets	 <b>In progress</b>	The Draft Feasibility Evaluation protocol includes a proposed prioritization approach.	Begin feasibility evaluations in accordance with prioritization.



**Water Conservation Program (EMS Program #3)**

Sponsors: Liz Weyler, LM; Joe Legare, Stoller

**Mission Statement:** The Water Conservation Program will facilitate the reduction of water consumption intensity at LM sites in support of Executive Order 13423 requirements, as approved by LM. The Water Conservation Program will advocate natural resource sustainability by continually improving water use efficiencies.

Objectives	Current Quarterly Status (as of September 30, 2008)	Action Taken This Quarter July 1, 2008– September 30, 2008 (Brief Summary of Actions)	Action Plan Next Quarter October 1, 2008– December 31, 2008 (Brief Highlight of Actions)
Program implementation	 <b>Green Status</b>  <b>The Water Conservation Program remains on schedule for full implementation.</b>	The Water Conservation Program Team has been implementing the program plan and working toward the objectives identified in the table below. The Water Conservation Program exceeded both the 2 percent annual potable WUI percentage reduction goal and the 16 percent reduction by FY 2015 end goal by achieving a 28.6 percent combined-sites WUI percentage reduction during FY 2008. This represents a total combined-sites potable water use savings of 428,875 gallons (gal) during FY 2008.	See discussion below.
Categorize LM sites	 <b>Completed</b>	LM sites were categorized to determine the level of Water Conservation Program inclusion, and a master list was compiled. There are 4 Goal Metrics Program sites (the Fernald Preserve, Grand Junction disposal site, Monticello site, and Old Rifle processing site), 14 general sites, and 79 non-Water Conservation Program sites.	Distribute LM site categorization information to Stoller and DOE Site Leads.
Establish FY 2007 baseline for Goal Metrics Program sites	 <b>Completed</b>	<p>Potable water use data was compiled for the FY 2007 baseline period for the Goal Metrics Program sites. The inclusion of a new Goal Metrics Program site (the Old Rifle processing site) during FY 2008 required that the baseline be adjusted at FY 2008 end. The following information is the adjusted baseline:</p> <p>Combined-sites Baseline WUI number 141.76 (gal/gross building square footage) with a corresponding total potable water use = 1,499,643 gal.</p> <p>The following are the individual site baselines:</p> <p>Fernald site: WUI = 205.15 with total potable water use = 1,477,076 gal.</p> <p>Grand Junction disposal site: WUI = 5.64 with total potable water use = 10,900 gal.</p> <p>Monticello site: WUI = 12.58 with total potable water use = 9,122 gal.</p> <p>Old Rifle processing site: WUI = 3.53 with total potable water use = 2,545 gal. (Note that this is FY 2008 data for this site because it was not added as a Goal Metrics Program site until the addition of the field trailer in FY 2008.)</p>	N/A

Objectives	Current Quarterly Status (as of September 30, 2008)	Action Taken This Quarter July 1, 2008– September 30, 2008 (Brief Summary of Actions)	Action Plan Next Quarter October 1, 2008– December 31, 2008 (Brief Highlight of Actions)
Determine WUI at Goal Metrics Program sites during FY 2008	➤ <b>Completed</b>	<p>The following potable water use data was compiled for FY 2008 for the Goal Metrics Program sites. A smaller WUI number reflects fewer gallons of potable water used per gross square footage.</p> <p>Combined-sites FY 2008 WUI number = 101.22 (gal/gross building square footage) with a corresponding total potable water use = 1,070,768 gal.</p> <p>Fernald site: WUI = 138.42 with total potable water use = 996,641 gal.</p> <p>Grand Junction disposal site: WUI = 32.63 with total potable water use = 63,100 gal.</p> <p>Monticello site: WUI = 11.70 with total potable water use = 8,482 gal.</p> <p>Old Rifle processing site: WUI = 3.53 with total potable water use = 2,545 gal.</p>	N/A
Determine FY 2008 performance toward Executive and DOE Order WUI percentage reduction goals for Goal Metrics Program sites	➤ <b>Completed</b>	<p>The following potable water use data shows the WUI percentage change during FY 2008, as compared to the adjusted baseline. Change in total gal usage is also provided.</p> <p>Combined-sites: Percentage WUI change = 28.6 percent (use reduction) and 428,875 gal saved (use reduction). Executive and DOE Order goal performance is based on the combined-sites WUI percentage change.</p> <p>Fernald site: Percentage WUI change = 32.53 percent (use reduction) and 480,435 gal saved (use reduction).</p> <p>Grand Junction disposal site: Percentage WUI change = -478.55 percent (use increase) and 52,200 additional gal consumed (use increase).</p> <p>Monticello site: Percentage WUI change = 7.00 percent (use reduction) and 640 gal saved (use reduction).</p> <p>Old Rifle processing site: Percentage WUI change = N/A and N/A gal saved.</p>	N/A
Implement EMS Water Conservation Program FY 2009 initiative to establish metering at Goal Metrics Program sites	➤ <b>In progress, on schedule.</b>	N/A	<p>Assess and begin working toward the EMS Water Conservation Program FY 2009 initiative to establish metering at Goal Metrics Program sites.</p> <p>Additional research is necessary to fully define applicability and requirements.</p> <p>Identify metering resources.</p>








Objectives	Current Quarterly Status (as of September 30, 2008)	Action Taken This Quarter July 1, 2008– September 30, 2008 (Brief Summary of Actions)	Action Plan Next Quarter October 1, 2008– December 31, 2008 (Brief Highlight of Actions)
Conduct water audits at Goal Metrics Program sites	➤ <b>Just started. Achievement of this deadline is questionable.</b>	No action to date.	Conduct audits at Goal Metrics Program sites by the end of CY 2008.  Additional research is necessary to fully define applicability and requirements. Identify audit resources.
Update water-use data sheets for the first quarter of FY 2009	➤ <b>In progress, on schedule.</b>	N/A	Data updated. This will include some projected data (necessary until actual data is available).
Prepare and report quarterly water-use performance data for the first quarter of FY 2009	➤ <b>In progress, on schedule.</b>	N/A	This will include some projected data (necessary until actual data is available).
Maintain Water Conservation Program LM master site determination list	➤ <b>In progress, on schedule.</b>	N/A	Make changes as necessary to keep list current.

**EPP Program (EMS Program #4)**

Sponsors: Deborah Boggs, LM; Donna Gallaher, Stoller

**Mission Statement:** The EPP Program will establish a national approach to expand purchases of environmentally sound goods and services, including biobased products, in accordance with Executive Order 13423, as approved by LM. The EPP Program will advocate the implementation of a green procurement process.

Objectives	Current Quarterly Status (as of September 30, 2008)	Action Taken This Quarter July 1, 2008– September 30, 2008 (Brief Summary of Actions)	Action Plan Next Quarter October 1, 2008– December 31, 2008 (Brief Highlight of Actions)
Program implementation	 <b>Green Status</b>  <b>The EPP Program has successfully implemented the coding system as planned as of the end of FY 2008.</b>	Since the EPP Program charter was formally issued, the implementation team comprising both Stoller and LM subject matter experts developed and finalized an implementation procedure, and continues to meet monthly to successfully complete the program objectives.	In the first quarter of FY 2009, the primary focus will be working closely with the workforce as it becomes familiar with implementing the EPP coding system. This new "green culture" has been welcomed throughout LMS, and communication on coding is openly discussed without adverse impact to the project schedules. The secondary focus will be report generation as well as real-time feedback on the successes toward green alternatives.
Establish system to capture EPP purchases	 <b>Completed</b>	In April, the EMS Coding Program was presented and approved by both the working group and the EMS Core Team. In addition, the "no codes" as exceptions were defined and approved in May. Finally, the purchase requisition was modified, and the credit card log field was ready for use to capture EPP consideration. In addition to the "Y Codes," the list of cost elements has been updated to reflect the reporting requirements toward green purchases and was put in place in advance of the new fiscal year. The combination of these two codes will enable comprehensive real-time reporting on a quarterly and annual basis.	The first 90 days of coding implementation require effective and consistent communication across the workforce. As the Implementation Team and EMS Core Team learns, tweaks to the base program will evolve.
Develop and issue EPP policy	 <b>Completed</b>	EPP policy has been approved and issued within the Stoller <i>Procurement Manual</i> (LMS/POL/S04334). LM is in the process of revising its policy issued by Mr. Owen enhancing the commitment toward green stewardship.	N/A
Issue media release/fact sheet on "LMS is GREEN"	 <b>Completed and ongoing</b>	The LMS poster and EPP coding fact sheet have been issued and located across the LMS sites. These visual tools, along with the <i>E-News</i> EMS updates, will continue to reinforce our joint commitment toward green stewardship.	The upcoming quarter will focus on sharing successes of, and lessons learned from, green stewardship via <i>E-News</i> and outreach opportunities.
Train personnel on EPP coding and reporting	 <b>On schedule</b>	EPP training across the LMS Stoller team is 95 percent complete. LM has rolled out the EMS training. EPP module training for LM will occur in the first quarter of FY 2009.	100 percent of the workforce required to take the training will have completed the EPP module.

Objectives	Current Quarterly Status (as of September 30, 2008)	Action Taken This Quarter July 1, 2008– September 30, 2008 (Brief Summary of Actions)	Action Plan Next Quarter October 1, 2008– December 31, 2008 (Brief Highlight of Actions)
Implement the tracking program	➤ <b>Not started. Objective to track is planned for the first quarter of FY 2009.</b>	As planned, all EPP Program implementation tools were in place in advance of the October 1, 2008, tracking kickoff.	As with any implementation, the program team will focus on workforce feedback in order to strengthen the program.
Evaluate performance during the first quarter of FY 2009 (October 1–December 31).	➤ <b>Not started. Objective to evaluate is planned for the first quarter of FY 2009.</b>	No action to date.	Evaluate EPP consideration performance that occurred in the fourth quarter of FY 2008. Target month is November 2008.
Develop links to "LMS Green" page (tool for requisitioners).	➤ <b>Not started. Objective to develop the links to the "LMS Green" page is planned for the first quarter of FY 2009.</b>	No action to date.	The initial collection of links toward the development of the "LMS Green" page is to begin in the fourth quarter of FY 2008. However, the posting of the page is planned for the first quarter of FY 2009.
Implement a lessons-learned report for FY 2009.	➤ <b>Not started. Objective to identify and implement lesson learned is planned for the first quarter of FY 2009.</b>	No action to date.	The initial collection of lessons learned is planned to begin in the first quarter of FY 2009. However, the evaluation and any identified system changes will occur for the first quarter of FY 2009.

### Waste Minimization and Pollution Prevention Program (EMS Program #5)

Sponsors: Deborah Boggs, LM; Dave Westhead, Stoller

**Mission Statement:** The Waste Minimization and Pollution Prevention Program supports efforts to promote a more sustainable environment and implements pollution prevention activities in accordance with Executive Order 13423, as approved by LM. The Waste Minimization and Pollution Prevention Program will advocate environmentally sound waste minimization and pollution prevention practices.

Objectives	Current Quarterly Status (as of September 30, 2008)	Action Taken This Quarter July 1–September 30, 2008 (Brief Summary of Actions)	Action Plan Next Quarter October 1–December 31, 2008 (Brief Highlight of Action)
Program implementation	★ <b>Green Status</b>  <b>The program remains on schedule for full implementation by the end of FY 2008.</b>	Since the Waste Minimization and Pollution Prevention Program charter was formally issued, the Implementation Team comprising both Stoller and LM subject matter experts developed and finalized an implementation procedure and continues to meet monthly to successfully complete the program objectives.	In the first performance quarter of FY 2009, training will be in place, the Awards Program will continue, and chemical inventories will be completed.
Obtain baseline information of waste and recycled materials	➤ <b>In progress.</b>	Gathering data from several sources for compilation into one tracking system. This will be the method by which we maintain individual site records for the roll up into a consolidated report.	Complete data collection and publish LM-wide.
Track volume of waste and recycled materials fourth quarter FY 2008	➤ <b>In progress. This has been implemented and reported in quarterly reports.</b>	Compiling site data for consolidated reporting. This will be the method by which we maintain individual site records for the roll up into a consolidated report. Working on consolidated LM-wide waste minimization and pollution prevention reporting.	Broaden scope of recycling at the sites.

Objectives	Current Quarterly Status (as of September 30, 2008)	Action Taken This Quarter July 1–September 30, 2008 (Brief Summary of Actions)	Action Plan Next Quarter October 1–December 31, 2008 (Brief Highlight of Action)
Develop method and implement tracking of hazardous chemicals	➤ <b>In progress</b>	An intern has developed the database and is currently collecting data to populate it.	Focus on green or sustainable chemicals LM-wide.
Develop Pollution Prevention Opportunity Assessment (PPOA) process	➤ <b>Not started. Planned for the first quarter of FY 2009.</b>	Internal completion date is September 30, 2008.	Develop PPOA process by the end of the fourth quarter.

### Sustainable Buildings Program (EMS Program #6)

Sponsors: Liz Weyler, LM; Mike Butherus, Stoller

**Mission Statement:** The Sustainable Buildings Program will evaluate and incorporate the requirements for sustainable buildings as defined in Executive Order 13423 and as approved by LM. The program will advocate the use of sustainable building practices.

Objectives	Current Quarterly Status (as of September 30, 2008)	Action Taken This Quarter July 1, 2008– September 30, 2008 (Brief Summary of Actions)	Action Plan Next Quarter October 1, 2008– December 31, 2008 (Brief Highlight of Actions)
Program implementation	★ <b>Green Status</b>  <b>The Sustainable Buildings Program remains on schedule for full implementation by the end of FY 2015.</b>	Since the program charter was formally issued, the implementation team, comprising both Stoller and LM subject matter experts, developed and finalized an implementation procedure and continues to exchange information and meet as needed to successfully complete the program objectives.	The following objectives are planned for the first quarter of FY 2009: (1) Collect information to apply for a “Closing the Circle” award, (2) research other awards to apply for, (3) exchange LEED information with Morgantown personnel, and (4) develop an execution plan to assess existing facilities.
Obtain LEED gold certification for the FPVC	➤ <b>Completed</b>	A total of 55 credits were submitted (including the original 31 design credits) to the U.S Green Building Council (USGBC); 53 of the 55 credits were approved. The number of points exceeded those required for LEED gold certification, and the USGBC awarded the FPVC LEED platinum certification.	Collect information to apply for a “Closing the Circle” award.  Research other awards to apply for.  Exchange LEED information with Morgantown personnel.
Establish baseline (capital asset buildings/ leased facilities)	➤ <b>Completed</b>	A baseline was created for both existing buildings and leased facilities.	NA
Assess existing facilities	➤ <b>In progress</b>	LM and Stoller representatives participated in the HQ High Performance Sustainable Building working group in fine-tuning the assessment tool for existing buildings.	Develop an execution plan to assess existing facilities.  Assess existing facilities in the second quarter of FY 2009.
Identify high-target buildings to implement guiding principles in 15 percent of existing buildings (by net square footage) by 2015	➤ <b>Not started. Objective to identify high-target buildings to implement guiding principles is planned for the third quarter of FY 2009.</b>	No action to date.	Identification of high-target buildings is to occur in the third quarter of FY 2009.




Objectives	Current Quarterly Status (as of September 30, 2008)	Action Taken This Quarter July 1, 2008– September 30, 2008 (Brief Summary of Actions)	Action Plan Next Quarter October 1, 2008– December 31, 2008 (Brief Highlight of Actions)
Identify recommendation to implement guiding principles	➤ <b>Not started.</b> <b>Objective to make recommendations to implement guiding principles is planned for the fourth quarter of FY 2009.</b>	No action to date.	Identification of recommendations for high-target buildings is to occur in the fourth quarter of FY 2009.

**Vehicle and Fuel Use Program (EMS Program #7)**

Sponsors: Mark Kautsky, LM; Derek Mikesell, Stoller

**Mission Statement:** The Vehicle and Fuel Use Program will evaluate and incorporate, as deemed appropriate for LM operations, the requirements for vehicle and fuel use as defined in Executive Order 13423 and as approved by LM. The Vehicle and Fuel Use Program will advocate natural resource sustainability by evaluating vehicle and fuel use.

Objectives	Current Quarterly Status (as of September 30, 2008)	Action Taken This Quarter July 1, 2008– September 30, 2008 (Brief Summary of Actions)	Action Plan Next Quarter October 1, 2008– December 31, 2008 (Brief Highlight of Actions)
Program implementation	★ <b>Green Status</b>  <b>The program remains on schedule.</b>	Since the program charter was formally issued, the implementation team, comprising both Stoller and LM subject matter experts, developed and finalized an implementation procedure and continues to meet monthly to successfully complete the program objectives.	In the final performance quarter of FY 2008, the following activities are planned: (1) maintain list of vehicles, (2) establish base period, and (3) monitor fuel consumption.
Maintain list of vehicles	➤ <b>In progress</b>	This list continued to be maintained.	This list will continue to be maintained.
Establish base period for comparison	➤ <b>Completed</b>	The baselines for fuel consumption and alternative-fuel consumption were established for FY 2007 and FY2008. In FY 2008, fuel consumption decreased from the previous year by 11 percent and alternative-fuel consumption increased by 86 percent.	N/A
Monitor monthly fuel consumption	➤ <b>In progress</b>	The monthly fuel consumption continued to be monitored.	The monthly fuel consumption will continue to be monitored.
Reduce Fuel Consumption	➤ <b>In progress</b>	Fuel costs were reduced by using alternate methods of transportation, combining field trips, or finding ways to eliminate the need for trips. Some examples are listed below:  <ul style="list-style-type: none"> <li>• Use of sedans rather than large GSA 4-wheel drive vehicles when off-road travel was not required.</li> <li>• Combining trips when schedule allows.</li> <li>• Coordinating with others traveling to the same destination to minimize number of vehicles (car pooling).</li> <li>• Maximizing use of nearest on-site technical support for sampling, inspections, bid tours, etc., depending on project location.</li> </ul>	Continue to reduce fuel consumption.


Objectives	Current Quarterly Status (as of September 30, 2008)	Action Taken This Quarter July 1, 2008– September 30, 2008 (Brief Summary of Actions)	Action Plan Next Quarter October 1, 2008– December 31, 2008 (Brief Highlight of Actions)
Program implementation	 <b>Green Status</b>  The program remains on schedule.	Since the program charter was formally issued, the implementation team, comprising both Stoller and LM subject matter experts, developed and finalized an implementation procedure and continues to meet monthly to successfully complete the program objectives.	In the final performance quarter of FY 2008, the following activities are planned: (1) maintain list of vehicles, (2) establish base period, and (3) monitor fuel consumption.
Maintain list of vehicles	 <b>In progress</b>	This list continued to be maintained.	This list will continue to be maintained.
Establish base period for comparison	 <b>Completed</b>	The baselines for fuel consumption and alternative-fuel consumption were established for FY 2007 and FY2008. In FY 2008, fuel consumption decreased from the previous year by 11 percent and alternative-fuel consumption increased by 86 percent.	N/A
		<ul style="list-style-type: none"> <li>• Maximizing use of telephone and video conference calling.</li> <li>• Minimizing number of personnel required to travel in order to accomplish the work.</li> </ul>	

**Electronics Stewardship Program (EMS Program #8)**

Sponsors: Trisha Garlow (effective 9-30-08), LM; Mike Bulebush, Stoller

**Mission Statement**

The Electronics Stewardship Program will promote the sustainable management of LM's electronic equipment by integrating the relevant requirements of Executive Order 13423 and DOE Order 450.1 with LM activities, as approved by LM. The program will advocate environmentally sound electronic stewardship practices.

Objectives	Current Quarterly Status (as of September 30, 2008)	Action Taken This Quarter July 1, 2008– September 30, 2008 (Brief Summary of Actions)	Action Plan Next Quarter October 1, 2008– December 31, 2008 (Brief Highlight of Actions)
Program implementation	 <b>Green Status</b>  The program remains on schedule.	<p>Since the program charter was formally issued, the implementation team, comprising both Stoller and LM subject matter experts, developed and finalized an implementation procedure and continues to meet monthly to successfully complete the program objectives.</p> <p>The presentation "Greening DOE-LM Information Technology" was created and presented to LM IT staff to increase client awareness.</p> <p>Trisha Garlow, LM IT, agreed to become the new DOE advocate for the Electronics Stewardship Program.</p>	<p>In the first performance quarter of FY 2009, the following activities are planned:</p> <p>(1) Make improvements in Electronic Product Environmental Assessment Tool (EPEAT) purchases, including tracking and awareness;</p> <p>(2) Begin activating Energy Star features on all computers and monitors;</p> <p>(3) Improve and standardize electronic-equipment recycling to meet minimum requirements as specified by DOE Order 450.1A; and</p> <p>(4) Make an Electronics Stewardship Program presentation to Stoller senior management.</p>








<b>Objectives</b>	<b>Current Quarterly Status</b> (as of September 30, 2008)	<b>Action Taken This Quarter</b> July 1, 2008– September 30, 2008 (Brief Summary of Actions)	<b>Action Plan Next Quarter</b> October 1, 2008– December 31, 2008 (Brief Highlight of Actions)
Track EPEAT purchases	➤ <b>In progress</b>	<p>\$30,000 was spent on EPEAT equipment (computers, monitors, etc.) at the FPVC.</p> <p>Tracking purchases of EPEAT computers and monitors was initiated through the implementation of the new EPP procurement coding system, which officially began on October 1, 2008.</p>	<p>Continue to purchase EPEAT equipment as needed.</p> <p>Begin tracking EPEAT purchases with the new EPP coding system. Continue working with those who purchase electronics to raise awareness so that EPEAT purchases become the standard way of doing business.</p>
Implement Energy Star features on computers and monitors	➤ <b>Not started. Objective is planned for the first quarter of FY 2009.</b>	No action to date. The FY 2009 EMS goals, approved in September 2008, include enabling Energy Star features on 100 percent of eligible computers and monitors.	Begin working with IT staff to activate Energy Star features on all computers and monitors.
Recycle electronic equipment	➤ <b>In progress</b>	<p>Electronic equipment was recycled at the Grand Junction site and the Weldon Spring site. Final quantities are still pending from the recycling vendors.</p> <p>Stoller initiated a procedure that will allow erasing data from used computer hard drives rather than destroying the hard drives. This may make it easier to donate LM computers to nonprofit groups in the future.</p>	<p>Continue to recycle electronic equipment as it is available.</p> <p>Compile electronic-equipment recycling quantities from the fourth quarter of FY 2008 for inclusion in DOE HQ's annual pollution prevention report for FY 2008, which is due at the beginning of December 2008.</p> <p>Redistribute the electronic-equipment recycling procedure to all affected contractor personnel.</p>

**Land Stewardship Program (EMS Program #9)**

Sponsors: Rich Bush, LM; Joe Legare, Stoller

**Mission Statement:** The Land Stewardship Program will advocate improved ecosystem health on LM properties in accordance with DOE Order 450.1 and other federal regulations, such as the Endangered Species Act, the Noxious Weed Act, the Wetlands and Floodplains Act, and the Farmland Protection Act, and as approved by LM. The program will advocate a process to (1) systematically evaluate and assess existing ecological site surface conditions and trends, (2) identify and propose improvements that would be beneficial on a landscape-ecosystem level, and (3) implement improvements with consideration of adjacent land uses, owners, and political entities. The program will define success on the basis of measurable parameters.

<b>Objectives</b>	<b>Current Quarterly Status</b> (as of September 30, 2008)	<b>Action Taken This Quarter</b> July 1, 2008– September 30, 2008 (Brief Summary of Actions)	<b>Action Plan Next Quarter</b> October 1, 2008– December 31, 2008 (Brief Highlight of Actions)
Program implementation	 <b>Green Status</b>  The program remains on schedule.	Since the program charter was formally issued, the implementation team, comprising both Stoller and LM subject matter experts, developed and finalized an implementation procedure and continues to meet monthly to successfully complete the program objectives.	In the first performance quarter of FY 2009, the following actions are planned: (1) reevaluate secondary screenings, (2) reevaluate prioritized sites, and (3) develop a strategy for the selected site.
Initial screening of sites	 <b>Completed in June 2008</b>	Primary screening was completed last quarter.	N/A
Secondary screening of sites	 <b>Completed</b>	Secondary screening has been completed.	Reevaluate secondary screening.
Prioritize sites, and select initial site	 <b>Completed</b>	Sites have been prioritized, and the initial site has been selected.	Reevaluate prioritization of sites, based on expanded scope of program direction.
Develop strategy for selected site	 <b>In progress, behind schedule</b>	Strategy development is on hold, pending reevaluation based on expanded program scope.	Develop a strategy for the selected site and submit the strategy to LM for approval.

**ENVIRONMENTAL STEWARDSHIP STANDARDS FOR EMS PROGRAM SUCCESS**

LM and Stoller:

- Met more than 75 percent of objectives and has fewer than 5 percent at risk according to EMS report card.
- Has a comprehensive, affirmative procurement program that includes all green products and services covered in Executive Order 13423; demonstrates compliance in representative acquisitions (e.g., construction, Operations and Maintenance, office supplies); monitors compliance annually; develops corrective action plans to address shortcomings; and conducts training.
- Demonstrates implementation of a sustainability program for buildings. Is consistent with EPACT 2005 and is on track to meet the 15 percent goal in Executive Order 13423.
  1. New contractors assigned construction, design, and new leases.
  2. Established a sustainable building program.
- Demonstrates comprehensive implementation of a sustainability program for electronic stewardship, which at a minimum promotes the purchase, operation, and use of end-of-life management strategies for electronic assets consistent with the Executive Order 13423 electronics stewardship goal and implementing instructions.
- Has a comprehensive Compliance Management Plan and implementation strategies in accordance with the President's Management Council Compliance Initiative Memorandum (November 2004), Executive Order 13423, and implementing instructions, and has implemented at least operational recommendations.



LM and Stoller:

- Has no more than 15 percent at risk on program metrics according to the EMS report card.
- Has an affirmative procurement program for all green products and services covered in Executive Order 13423, and can demonstrate compliance in representative acquisitions (e.g., construction, Operations and Maintenance, office supplies).
- Incorporates guiding principles into all *new* design contracts for construction, major renovations, and leases (those awarded in FY 2007 and beyond).
- Has developed an electronic stewardship program and is on track to implement 100 percent of planned milestones to meet the Executive Order 13423 electronic stewardship goal no later than FY2010.
- Has a comprehensive Compliance Management Plan and implementation strategies in accordance with the President's Management Council Compliance Initiative Memorandum (November 2004), Executive Order 13423, and implementing instructions.



LM and Stoller:

- Has more than 15 percent at risk on metrics according to the EMS report card.
- Has no affirmative procurement program or only has a program for some products, and/or cannot demonstrate inclusion of requirements for green products in representative acquisitions.
- Cannot demonstrate incorporation or compliance with guiding principles on new construction, major renovations, or leases, and/or has not developed a sustainable buildings program.
- Does not have a program to implement the Executive Order 13423 electronic stewardship goal and/or has missed planned electronic stewardship milestones.
- If applicable, has not selected initiatives for a Compliance Management Plan and/or developed a strategy with the Federal Environmental Executive in accordance with the President's Management Council Compliance Initiative Memorandum (November 2004), Executive Order 13423, and implementing instructions.